

10/627,394

STN - STRUCTURE SEARCH

10/13/04

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L4 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2001:778163 CAPLUS
DOCUMENT NUMBER: 135:336978
TITLE: Photothermographic material containing
development-inhibitor-releasing redox compound
INVENTOR(S): Hirano, Shigeo
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 53 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|------|----------|-----------------|----------|
| JP 2001296634 | A2 | 20011026 | JP 2000-110938 | 20000412 |

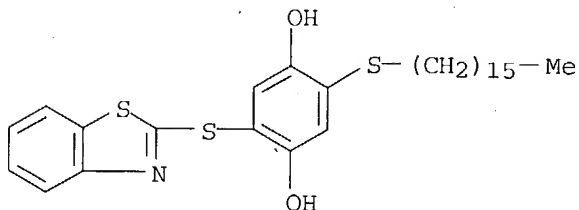
PRIORITY APPLN. INFO.: JP 2000-110938 20000412

AB The material has an image forming layer on ≥ 1 side of a support, containing a reducible Ag salt, a reducing agent, a binder, and A(Time)tX [A = redox nucleus comprising atoms releasing (Time)tX group by oxidation during development; Time = timing group linking to A with S, N, O, or Se atom; t = 0, 1; X = developer inhibiting group]. It shows reduced dependency on temperature and humidity, and is useful for black-and-white image formation.

IT **369652-82-4**
RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)
(photothermog. material containing development inhibitor releasing redox compound)

RN 369652-82-4 CAPLUS

CN 1,4-Benzenediol, 2-(2-benzothiazolylthio)-5-(hexadecylthio)- (9CI) (CA INDEX NAME)



L4 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1999:116678 CAPLUS
DOCUMENT NUMBER: 130:170503
TITLE: Heterocyclic thioether as additive for lubricating agent
INVENTOR(S): Camenzind, Hugo; Evans, Samuel; Dratva, Alfred; Haenggi, Peter
PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.
SOURCE: Ger. Offen., 16 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|------------------|-------------|
| DE 19834951 | A1 | 19990211 | DE 1998-19834951 | 19980803 |
| GB 2327944 | A1 | 19990210 | GB 1998-15480 | 19980717 |
| BE 1012345 | A5 | 20001003 | BE 1998-579 | 19980731 |
| NL 1009793 | A1 | 19990209 | NL 1998-1009793 | 19980803 |
| NL 1009793 | C2 | 20000531 | | |
| JP 11124375 | A2 | 19990511 | JP 1998-231158 | 19980803 |
| US 6150307 | A | 20001121 | US 1998-128086 | 19980803 |
| CA 2244492 | AA | 19990206 | CA 1998-2244492 | 19980804 |
| FR 2767828 | A1 | 19990305 | FR 1998-9987 | 19980804 |
| FR 2767828 | B1 | 20020712 | | |
| TW 466270 | B | 20011201 | TW 1998-87112796 | 19980804 |
| NO 9803594 | A | 19990208 | NO 1998-3594 | 19980805 |
| ZA 9807011 | A | 19990208 | ZA 1998-7011 | 19980805 |
| CN 1207387 | A | 19990210 | CN 1998-118002 | 19980805 |
| CN 1104425 | B | 20030402 | | |
| IT 1302004 | B1 | 20000720 | IT 1998-MI1848 | 19980805 |
| ES 2154162 | A1 | 20010316 | ES 1998-1670 | 19980805 |
| ES 2154162 | B1 | 20020701 | | |
| BR 9802852 | A | 20000328 | BR 1998-2852 | 19980806 |
| US 6362138 | B1 | 20020326 | US 2000-663822 | 20000915 |
| PRIORITY APPLN. INFO.: | | | CH 1997-1863 | A 19970806 |
| | | | US 1998-128086 | A1 19980803 |

OTHER SOURCE(S): MARPAT 130:170503

AB Heterocyclic thioethers are useful as ashfree antiwear agents and antioxidants for lubricants and fuels.

IT 220344-72-9P 220344-73-0P 220344-74-1P

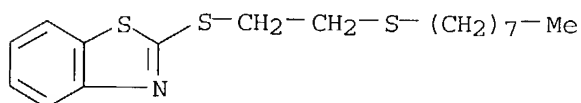
220344-75-2P 220344-76-3P

RL: IMF (Industrial manufacture); PREP (Preparation)

(heterocyclic thioethers as additives for lubricating agents and fuels)

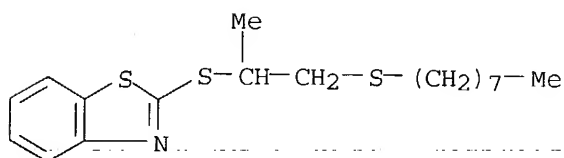
RN 220344-72-9 CAPLUS

CN Benzothiazole, 2-[[2-(octylthio)ethyl]thio]- (9CI) (CA INDEX NAME)



RN 220344-73-0 CAPLUS

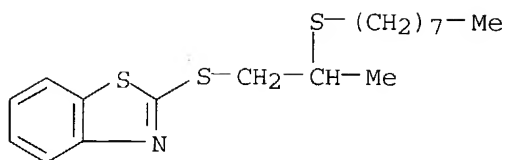
CN Benzothiazole, 2-[[1-methyl-2-(octylthio)ethyl]thio]- (9CI) (CA INDEX NAME)



RN 220344-74-1 CAPLUS

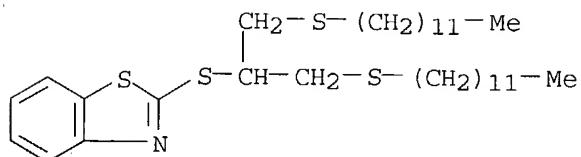
CN Benzothiazole, 2-[[2-(octylthio)propyl]thio]- (9CI) (CA INDEX NAME)

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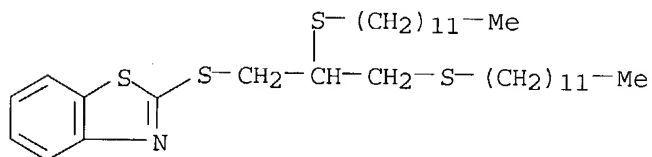
RN 220344-75-2 CAPLUS

CN Benzothiazole, 2-[[2-(dodecylthio)-1-[(dodecylthio)methyl]ethyl]thio] - (9CI) (CA INDEX NAME)



RN 220344-76-3 CAPLUS

CN Benzothiazole, 2-[[2,3-bis(dodecylthio)propyl]thio] - (9CI) (CA INDEX NAME)



L4 ANSWER 3 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1994:667695 CAPLUS

DOCUMENT NUMBER: 121:267695

TITLE: Silver halide photographic materials using hydroquinone derivative development-inhibitor-releasing agent

INVENTOR(S): Ishige, Osamu; Kato, Eisaku

PATENT ASSIGNEE(S): Konishiroku Photo Ind, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 23 pp.

CODEN: JKXXAF

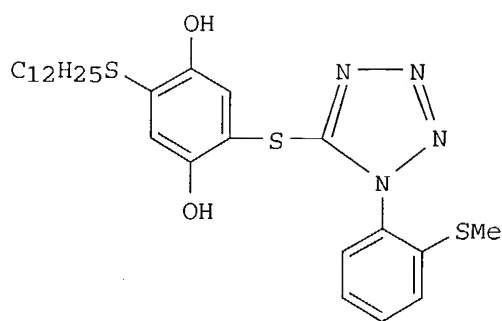
DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------------|------|----------|-----------------|----------|
| JP 06175308 | A2 | 19940624 | JP 1992-325678 | 19921204 |
| PRIORITY APPLN. INFO.: GI | | | JP 1992-325678 | 19921204 |



I

AB The title photog. materials contain a compound A(Time)lINHQ [A = (substituted) hydroquinone residue, catechol residue, naphthohydroquinone residue, sulfonamidophenol residue; Time = timing group; l = 0-2; INH-Q = development inhibitor residue linking to (Time)l via hetero atom; Q = group able to substitute to INH and having ≥ 1 thioether bond as a partial structure, Q dose not bond directly via S atom to the heterocyclic part of INH]. The materials show high sharpness, suppressed interlayer effect, and good storage stability. Thus, a color photog. film was prepared by using a red-sensitive Ag(I, Br) emulsion layer containing I:

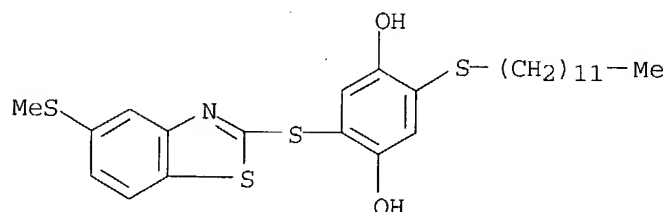
IT 158671-97-7

RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)

(silver halide color photog. emulsion containing hydroquinone derivative development-inhibitor-releasing agent for high sharpness and storage stability)

RN 158671-97-7 CAPLUS

CN 1,4-Benzenediol, 2-(dodecylthio)-5-[[5-(methylthio)-2-benzothiazolyl]thio]-(9CI) (CA INDEX NAME)



L4 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1994:483384 CAPLUS

DOCUMENT NUMBER: 121:83384

TITLE: Preparation of (benzothiazolylthio)triazines as lubricant additives

INVENTOR(S): Camenzind, Hugo

PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.

SOURCE: Eur. Pat. Appl., 14 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.

KIND

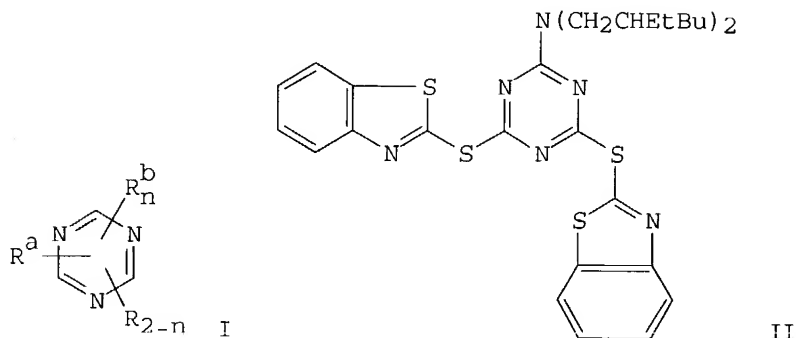
DATE

APPLICATION NO.

DATE

10/627,394

| | | | | |
|------------------------|------------------|----------|----------------|------------|
| EP 595771 | A1 | 19940504 | EP 1993-810743 | 19931021 |
| EP 595771 | B1 | 19961127 | | |
| R: DE, FR, GB, IT | | | | |
| US 5433873 | A | 19950718 | US 1993-140574 | 19931021 |
| JP 06199852 | A2 | 19940719 | JP 1993-294048 | 19931029 |
| PRIORITY APPLN. INFO.: | | | CH 1992-3389 | A 19921030 |
| OTHER SOURCE(S): | MARPAT 121:83384 | | | |
| GI | | | | |

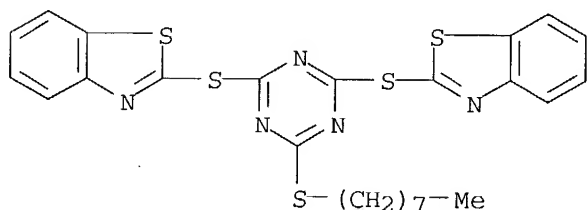


AB Title compds. (I; R,Ra = OR1, SR2, NR3R4; Rb = 2-benzothiazolylthio; R1,R3,R4 = H, C1-30 alkyl, Ph, naphthyl, etc.; R2 = C1-30 alkyl, Ph, naphthyl, etc.; NR3R4 = piperidino, pyrrolidino, azepino; n = 1 or 2) were prepared. Thus, cyanuric chloride was aminated by HN(CH₂CH₂EtBu)₂ and the product thioetherified by 2-mercaptobenzothiazole to give title compound II. Data for antiwear and antioxidant properties of 4 prepared I were given.

IT **156275-71-7P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of, as lubricant additive)

RN 156275-71-7 CAPLUS

CN Benzothiazole, 2,2'-[[6-(octylthio)-1,3,5-triazine-2,4-diyl]bis(thio)]bis-(9CI) (CA INDEX NAME)



L4 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN.

ACCESSION NUMBER: 1992:642492 CAPLUS

DOCUMENT NUMBER: 117:242492

TITLE: Organosulfur resin for optical components

INVENTOR(S): Miyazaki, Takeshi; Murata, Takashige

PATENT ASSIGNEE(S): Nippon Yushi K. K., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
 CODEN: JKXXAF

DOCUMENT TYPE: Patent

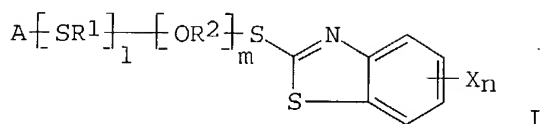
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

10/627,394

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------------|------|----------|-----------------|----------|
| JP 04063301 | A2 | 19920228 | JP 1990-174562 | 19900703 |
| PRIORITY APPLN. INFO.: GI | | | JP 1990-174562 | 19900703 |



AB The resin comprises a copolymer of monomers containing I (A = OCC(R3):CH2; CH2CH2OCC(R3):CH2; CH2CH(OH)CH2OCC(R3):CH2; CH2CH2COOCH2CH(OH)CH2OCC(R3):CH2, CH2C6H4(CH:CH2); R3 = H, Me; R1,R2 = Cl-6 alkylene; X = Cl, Br, I; and l,m,n = 0-2. The resin (heat-, chemical-, shock-resistant; n > 1.53; a small chromatic aberration; strain-free) is suited for fabricating optical lenses.

IT 144394-02-5

RL: USES (Uses)
(plastic optical lenses from)

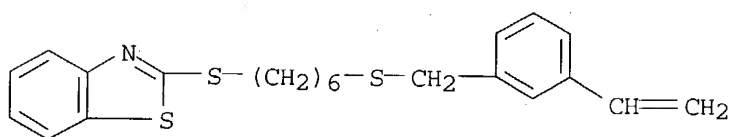
RN 144394-02-5 CAPLUS

CN Benzothiazole, 2-[[6-[[[(3-ethenylphenyl)methyl]thio]hexyl]thio]-, polymer with α-(2-methyl-1-oxo-2-propenyl)-ω-[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME).

CM 1

CRN 144394-01-4

CMF C22 H25 N S3

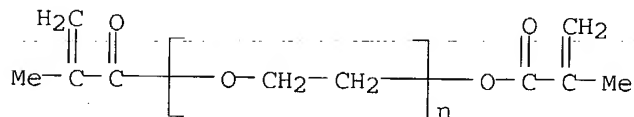


CM 2

CRN 25852-47-5

CMF (C2 H4 O)n C8 H10 O3

CCI PMS



L4 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1992:224622 CAPLUS

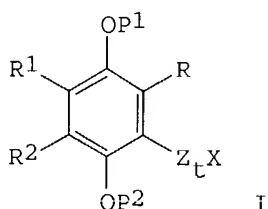
DOCUMENT NUMBER: 116:224622

TITLE: Silver halide photographic material having redox compound emulsion layer

10/627,394

INVENTOR(S): Kato, Kazunobu; Hirano, Shigeo
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 25 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------------|------|----------|-----------------|----------|
| JP 03291645 | A2 | 19911220 | JP 1990-94550 | 19900410 |
| PRIORITY APPLN. INFO.: GI | | | JP 1990-94550 | 19900410 |



AB In the material consisting of a support coated with a 1st Ag halide emulsion layer containing a redox compound AZtX (A = oxidation-reduction center or its precursor exclusive of hydrazine; Z = timing group which eliminates by oxidation in development; X = development-preventing agent; t = 0, 1) and a 2nd emulsion layer with higher sensitivity than the 1st layer, the 2nd layer or an adjacent hydrophilic colloid layer contains a hydrazine derivative. The material may contain a redox compound I (R-R² = H, group substitutable on the hydroquinone ring; P¹, P² = H, protecting group cleavable in development). The material showed good dot gradation.

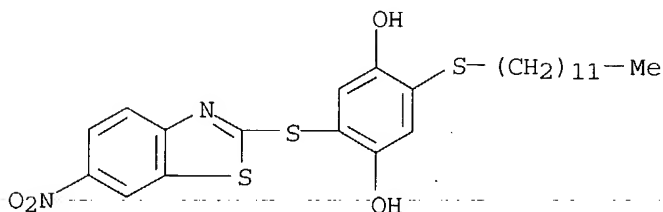
IT 141187-73-7

RL: USES (Uses)

(photog. material emulsion layer containing, for good dot gradation)

RN 141187-73-7 CAPLUS

CN 1,4-Benzenediol, 2-(dodecylthio)-5-[(6-nitro-2-benzothiazolyl)thio]- (9CI)
(CA INDEX NAME)



L4 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1992:140026 CAPLUS

DOCUMENT NUMBER: 116:140026

TITLE: Diffusion transfer type silver halide color photosensitive materials

INVENTOR(S): Matsuda, Naoto; Nakamine, Takeshi; Hirai, Hiroyuki

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan

10/627,394

SOURCE: Eur. Pat. Appl., 75 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| EP 451833 | A1 | 19911016 | EP 1991-105764 | 19910411 |
| EP 451833 | B1 | 19960710 | | |
| R: DE, FR, GB, IT, NL | | | | |
| JP 03293666 | A2 | 19911225 | JP 1990-96756 | 19900412 |
| JP 2649855 | B2 | 19970903 | | |
| US 5206131 | A | 19930427 | US 1991-683913 | 19910411 |
| PRIORITY APPLN. INFO.: | | | JP 1990-96756 | 19900412 |

OTHER SOURCE(S): MARPAT 116:140026

AB A diffusion transfer-type Ag halide color photog. photosensitive material comprises a support, having >1 photosensitive Ag halide, a binder, a dye donating compound which is fast to diffusion and which forms or releases a diffusible dye, a development inhibitor releasing compound which releases a development inhibitor, and R₁YOH (I; R₁ = alkyl, aryl, alkylamino, arylamino, alkoxy, aryloxy, heterocyclyl or a polymer residual group; Y = CONR₂ or SO₂NR₂; R₂ = H, alkyl, aryl, acyl; R₁R₂ = 5- or 8-member ring). An improvement in color reproduction for the diffusion transfer type color photog. is achieved by the conjoint use of I with development inhibitor releasing compds.

IT **139673-38-4**

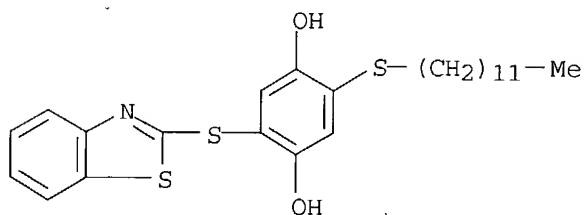
RL: USES (Uses)

(developer inhibitor releasing coupler, photosensitive composition containing

amide or sulfonamide compound and, for color photog. materials)

RN 139673-38-4 CAPLUS

CN 1,4-Benzenediol, 2-(2-benzothiazolylthio)-5-(dodecylthio)- (9CI) (CA INDEX NAME)



L4 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1987:477287 CAPLUS

DOCUMENT NUMBER: 107:77287

TITLE: Phase-transfer synthesis of symmetrical and unsymmetrical dialkyl trithiocarbonates

AUTHOR(S): Degani, Iacopo; Fochi, Rita; Gatti, Antonella; Regondi, Valeria

CORPORATE SOURCE: Ist. Chim. Org., Univ. Torino, Turin, I-10125, Italy

SOURCE: Synthesis (1986), (11), 894-9
CODEN: SYNTBF; ISSN: 0039-7881

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 107:77287

AB Quaternary ammonium salts and Me(CH₂)₁₅P+Bu₃ Br- catalyzed the reactions

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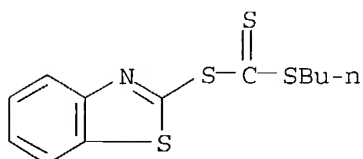
of CS₂ with Na₂S and organic halides and with thiols and organic halides. Esters R₁SC(S)SR₁ (R₁ = alkyl, PhCH₂, allyl) and R₂SC(S)SR₃ (R₂ = alkyl, PhCH₂, 2-benzothiazolyl; R₃ = alkyl, PhCH₂, allyl) were prepared

IT 89622-62-8P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 89622-62-8 CAPLUS

CN Carbonotrithioic acid, 2-benzothiazolyl butyl ester (9CI) (CA INDEX NAME)



L4 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1986:209908 CAPLUS

DOCUMENT NUMBER: 104:209908

TITLE: Lubricant additives

INVENTOR(S): Wirth, Hermann O.; Friedrich, Hans Helmut

PATENT ASSIGNEE(S): Ciba-Geigy A.-G. , Switz..

SOURCE: Eur. Pat. Appl., 43 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

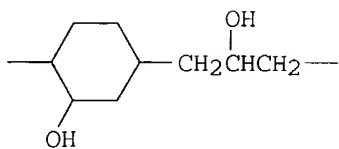
LANGUAGE: German

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|-------------|
| EP 166696 | A2 | 19860102 | EP 1985-810292 | 19850624 |
| EP 166696 | A3 | 19860514 | | |
| EP 166696 | B1 | 19890719 | | |
| R: BE, DE, FR, GB, IT | | | | |
| CA 1260479 | A1 | 19890926 | CA 1985-485483 | 19850627 |
| JP 61031494 | A2 | 19860213 | JP 1985-143820 | 19850629 |
| JP 06074433 | B4 | 19940921 | | |
| US 4931576 | A | 19900605 | US 1988-213509 | 19880628 |
| US 5618778 | A | 19970408 | US 1995-422670 | 19950412 |
| US 5892051 | A | 19990406 | US 1996-769678 | 19961216 |
| PRIORITY APPLN. INFO.: | | | CH 1984-3148 | A 19840629 |
| | | | CH 1985-2047 | A 19850514 |
| | | | US 1985-750618 | B1 19850701 |
| | | | US 1985-750839 | B1 19850701 |
| | | | US 1986-894460 | B1 19860730 |
| | | | US 1987-18793 | B1 19870220 |
| | | | US 1987-23939 | B1 19870305 |
| | | | US 1987-107896 | B1 19871009 |
| | | | US 1991-717163 | B1 19910617 |
| | | | US 1992-825437 | B1 19920123 |
| | | | US 1992-999173 | B1 19921228 |
| | | | US 1995-422670 | A3 19950412 |

GI



I

AB Multifunctional lubricant additives (including antiwear-extreme pressure, present at 0.25-2.5 weight% in a base oil) have a general formula $\text{RSCH}_2\text{CH}(\text{OH})\text{CH}_2\text{SR}_4$, (R = alkyl, aryl, H, cycloalkyl, alkylaryl, heteroaryl, or alkylheteroaryl; R_4 = C5-6-cycloalkyl, Ph, aminophenyl, C1-16-alkyl, C1-16-alkyl substituted by NH_2 , Ph, 2-oxopyrrolidino, CN, perfluoro-C1-8-alkyl, 2 OH-groups, or containing ether or sulfide linkages). Especially, R = $\text{R}_1\text{R}_2\text{R}_3\text{C}$, in which R_1 , R_2 , and R_3 are (independently)

C1-18-alkyl

and contain <22 C atoms total. In addition, R_4 can be a number of other groups,

such as $(\text{CH}_2)_0\text{-6SCH}_2\text{CHOHCH}_2\text{S}(\text{C1-16-alkyl})$, $(\text{CH}_2)_1\text{-2CO}_2\text{R}_5$ (R_5 = H, C1-16-alkyl, or alkali metal salt), $(\text{CH}_2)_1\text{-2CO}_2\text{H.H}_2\text{NR}_6$ (R_6 = C8-16-alkyl), $\text{P}(\text{:X})(\text{OR}_7)_2$ (X = O or S, R_7 = C1-16-alkyl, Ph, or tolyl), naphthyl or heteroaryl, SO_3M or $\text{C}_6\text{H}_4\text{CO}_2\text{M}$ (M = alkali metal), $(\text{CH}_2)_1\text{-4 R}_8$ (R_8 = heteroaryl), $(\text{CH}_2)_1\text{-2CONR}_9\text{R}_{10}$ (R_9 = unsubstituted or substituted C1-16-alkyl, R_{10} = H or R_9), $\text{CH}_2\text{CH}(\text{OH})\text{CH}_2\text{SR}_{11}$ (R_{11} = H or C1-16-alkyl), $\text{R}_{12}\text{SCH}_2\text{CH}(\text{OH})\text{CH}_2\text{SR}$ (R is as above, R_{12} = $(\text{CH}_2)_2\text{O}(\text{CH}_2)_2\text{O}(\text{CH}_2)_2$, $(\text{CH}_2)_0\text{-8}$, arylene, I, or derived from bisphenol A diglycidyl ether). Thus, 1 weight% $\text{RSCH}_2\text{CH}(\text{OH})\text{CH}_2\text{SCH}_2\text{CH}_2\text{OH}$ (R = tert-dodecyl) in a base oil was tested in a Shell 4-ball apparatus, resulting in 2200 N weld load and 0.50 mm wear scar diameter. The additives are typically prepared by reaction of a thiol with an alkylthioglycidyl ether.

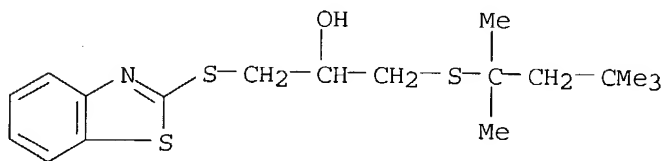
IT 101855-81-6 101855-84-9

RL: USES (Uses)

(lubricating oil multifunctional additives)

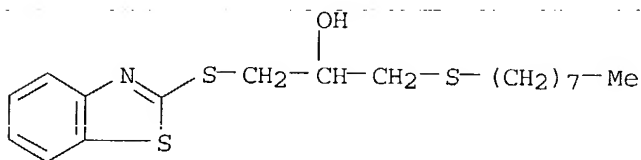
RN 101855-81-6 CAPLUS

CN 2-Propanol, 1-(2-benzothiazolylthio)-3-[(1,1,3,3-tetramethylbutyl)thio]- (9CI) (CA INDEX NAME)



RN 101855-84-9 CAPLUS

CN 2-Propanol, 1-(2-benzothiazolylthio)-3-(octylthio)- (9CI) (CA INDEX NAME)



10/627,394

DOCUMENT NUMBER: 100:156239
TITLE: Trithiocarbonic acid diesters
INVENTOR(S): Degani, Iacopo; Fochi, Rita; Regondi, Valeria
PATENT ASSIGNEE(S): Consiglio Nazionale delle Ricerche, Italy
SOURCE: Eur. Pat. Appl., 18 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------------------|------|----------|-----------------|----------|
| EP 97626 | A1 | 19840104 | EP 1983-830123 | 19830622 |
| EP 97626 | B1 | 19860409 | | |
| R: AT, BE, DE, FR, GB, NL | | | | |
| AT 19063 | E | 19860415 | AT 1983-830123 | 19830622 |
| JP 59046263 | A2 | 19840315 | JP 1983-111966 | 19830623 |
| JP 61047831 | B4 | 19861021 | | |
| US 4868322 | A | 19890919 | US 1988-212135 | 19880628 |

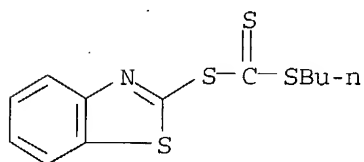
PRIORITY APPLN. INFO.:
IT 1982-22010 19820623
US 1983-505960 19830620
EP 1983-830123 19830622

AB CS2 was treated with mercaptans, or inorg. sulfides, and alkyl halides in the presence of quaternary ammonium and phosphonium salts to yield diesters. Thus, CS2 was treated with Na2S, octyl bromide, and (C8H17)3N+Me Cl- to give dioctyl trithiocarbonate. The reaction of CS2, BuSH, and octyl bromide with the above catalyst gave BuSC(S)S(CH2)7Me.

IT **89622-62-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 89622-62-8 CAPLUS

CN Carbonotrithioic acid, 2-benzothiazolyl butyl ester (9CI) (CA INDEX NAME)



L4 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1967:55430 CAPLUS
DOCUMENT NUMBER: 66:55430
TITLE: Syntheses based on 2-benzothiazolyl vinyl sulfide
AUTHOR(S): Prilezhaeva, E. N.; Shmonina, L. I.
CORPORATE SOURCE: N. D. Zelinskii Inst. Org. Chem., Moscow, USSR
SOURCE: Zhurnal Organicheskoi Khimii (1966), 2(10), 1883-91
CODEN: ZORKAE; ISSN: 0514-7492
DOCUMENT TYPE: Journal
LANGUAGE: Russian

AB 2-Benzothiazolyl vinyl sulfide and its sulfone were subjected to free radical-catalyzed addns. to the vinyl group of the former and nucleophilic addns. to the vinyl group of the latter to yield products for potential tests of physiol. activity. While the above sulfide has nucleophilic character in its vinyl group, the sulfone had only electrophilic character in its vinyl group. The free radical reactions of the sulfide were inhibited by atmospheric O and subjected at times to inverted orientation. Oxidation of the substituted 2-benzothiazoles with S in the side-chain did

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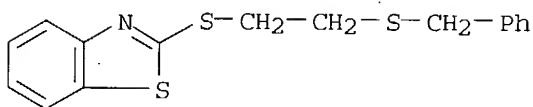
not involve the hetero atom in the ring. The free radical addns. were run with (:NCMe2CN)2 initiator under N at 75-80°. The following products were reported: 2-RSCH2CH2SCMe3 (R = 2-benzothiazolyl group), b0.02 103-5°; 2-RSCH2CH2SPh, b0.02 128-30°; 2-RSCH2CH2SCH2Ph, b0.02 181-3°; 2-RSCH2CH2SAc, b0.02 127.5-30°; 2-RSCH2CH2SCH2CH2OH, b0.02 148-53°; 2-RSOCH:CH2, m. 45-6°; 2-RSO2CH:CH2, m. 86-7°; 2-RSO2CH2CH2OEt, m. 60.5-1.5°; 2-RSO2CH2CH2SEt, m. 71-2.5°; 2-RSO2CH2CH2SBu, m. 46.5-7.5°; 2-RSO2CH2CH2SPh, m. 80-1.5°; 2-RSO2CH2CH2NPr2, m. 45.5-46°; 2-RSO2CH2CH2NBu2 m. 60-1°; 2-RSO2CH2CH2SO2Et, m. 148-9°; 2-RSO2CH2CH2SO2CMe3, m. 147-8°; 2-RSCH2CH2SO3H, m. 145-6°; 2-RSO2CH2CH2SOPh, m. 160-1°; 2-RSO2CH2CH2SOCH2Ph, m. 135-6°; 2-RSO2CH2CH2SO2Ph, m. 176.5-7.5°; 2-RSO2CH2CH2SO2CH2Ph, m. 165-6°; 2 - RSO2CH2CH2SO3Me, m. 119-20°. The sulfoxidns. were performed conventionally with AcO2H. spectra of products were reported.

IT 13604-16-5P 13604-23-4P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

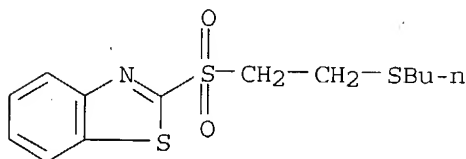
RN 13604-16-5 CAPLUS

CN Benzothiazole, 2-[[2-(benzylthio)ethyl]thio]- (8CI) (CA INDEX NAME)



RN 13604-23-4 CAPLUS

CN Benzothiazole, 2-[[2-(butylthio)ethyl]sulfonyl]- (8CI) (CA INDEX NAME)



=> d his

(FILE 'HOME' ENTERED AT 15:06:12 ON 13 OCT 2004)

FILE 'REGISTRY' ENTERED AT 15:06:29 ON 13 OCT 2004

L1 STRUCTURE UPLOADED

L2 1 S L1

L3 20 S L1 FULL

FILE 'CAPLUS' ENTERED AT 15:07:02 ON 13 OCT 2004

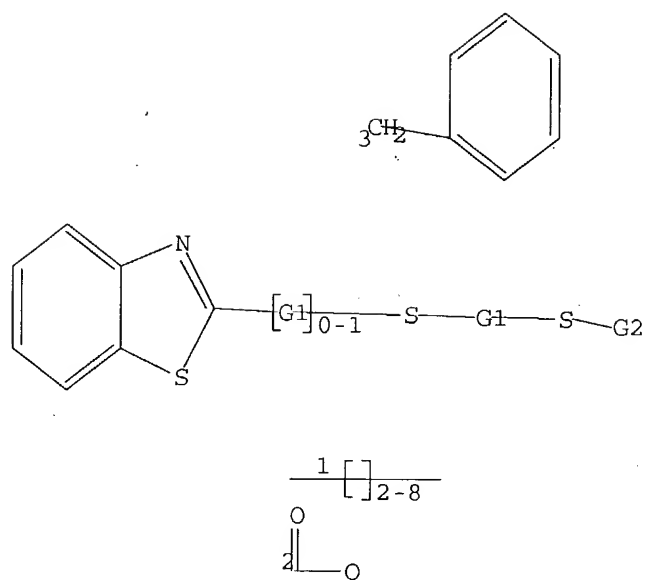
L4 11 S L3

=> d l1

L1 HAS NO ANSWERS

L1 STR

10/627,394



G1 Cy,Ak

G2 H, [$@1$], [$@2$], [$@3$]

Structure attributes must be viewed using STN Express query preparation.

=>

10/627,394

10/13/04

=> d ibib abs hitstr

L7 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:355881 CAPLUS
DOCUMENT NUMBER: 138:370658
TITLE: Method and catalysts for producing **bisphenols**
INVENTOR(S): Webb, Jimmy Lynn; Spivack, James Lawrence
PATENT ASSIGNEE(S): General Electric Company, USA
SOURCE: U.S. Pat. Appl. Publ., 17 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|------|----------|-----------------|----------|
| US 2003088130 | A1 | 20030508 | US 2001-954909 | 20010918 |
| US 6620939 | B2 | 20030916 | | |
| WO 2004078345 | A1 | 20040916 | WO 2003-US6435 | 20030303 |

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

US 2004019242 A1 20040129 US 2003-627445 20030725
PRIORITY APPLN. INFO.: US 2001-954909 A 20010918

OTHER SOURCE(S): CASREACT 138:370658; MARPAT 138:370658

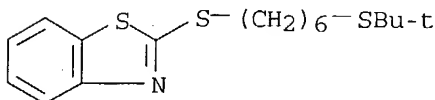
AB This disclosure relates to a method for producing and using catalysts in the production of **bisphenols**, and in particular to a method for producing catalysts which contain poly-sulfur mercaptan promoters attached to solid acid supports, and using these catalysts in the production of bisphenol-A and its derivs.

IT 521310-21-4 521310-23-6 521310-32-7
521310-34-9 521310-36-1

RL: CAT (Catalyst use); USES (Uses)
(promoter; method and catalysts for producing **bisphenols**)

RN 521310-21-4 CAPLUS

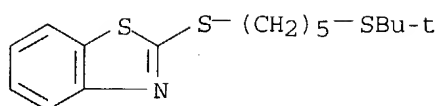
CN Benzothiazole, 2-[[6-[(1,1-dimethylethyl)thio]hexyl]thio]- (9CI) (CA INDEX NAME)



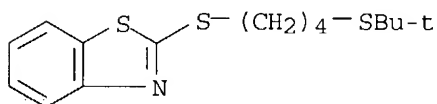
RN 521310-23-6 CAPLUS

CN Benzothiazole, 2-[[5-[(1,1-dimethylethyl)thio]pentyl]thio]- (9CI) (CA INDEX NAME)

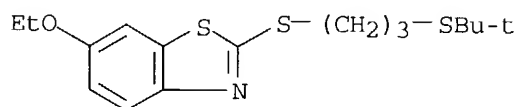
10/627,394



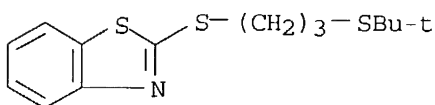
RN 521310-32-7 CAPLUS
CN Benzothiazole, 2-[[4-[(1,1-dimethylethyl)thio]butyl]thio]- (9CI) (CA INDEX NAME)



RN 521310-34-9 CAPLUS
CN Benzothiazole, 2-[[3-[(1,1-dimethylethyl)thio]propyl]thio]-6-ethoxy- (9CI) (CA INDEX NAME)



RN 521310-36-1 CAPLUS
CN Benzothiazole, 2-[[3-[(1,1-dimethylethyl)thio]propyl]thio]- (9CI) (CA INDEX NAME)



=> d his

(FILE 'HOME' ENTERED AT 14:56:17 ON 13 OCT 2004)

FILE 'REGISTRY' ENTERED AT 14:56:31 ON 13 OCT 2004

L1 STRUCTURE UPLOADED
L2 STRUCTURE UPLOADED
L3 19 S L2
L4 540 S L2 FULL

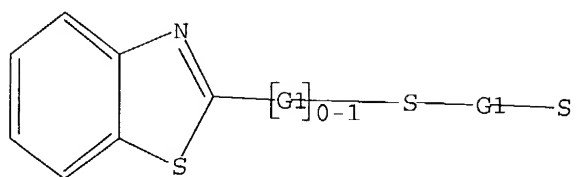
FILE 'CAPLUS' ENTERED AT 14:59:25 ON 13 OCT 2004

L5 695 S L4
L6 4568 S BISPHENOLS
L7 1 S L5 AND L6

=> d 12

L2 HAS NO ANSWERS
L2 STR

10/627,394



G1 Cy,Ak

Structure attributes must be viewed using STN Express query preparation.

=>

Day : Wednesday

Date: 10/13/2004

Time: 16:54:24

PALM INTRANET

Inventor Name Search Result

Your Search was:

Last Name = WEBB

First Name = JIMMY

| Application# | Patent# | Status | Date Filed | Title |
|-------------------|------------|--------|------------|--|
| <u>60134692</u> | Not Issued | 159 | 05/18/1999 | RESORCINOL PHTHALATE POLYMERS AND COPOLYMERS WITH GOOD MELT STABILITY |
| <u>60128339</u> | Not Issued | 159 | 04/08/1999 | HIGHLY WEATHEABLE ARTICLES WITH RESORCINOL POLYARYLATE OUTER LAYERS |
| <u>60021750</u> | Not Issued | 159 | 07/15/1996 | QUARTERNARY BISPHENOLATES, METHODS FOR THEIR PREPARATION, AND USES THEREOF |
| <u>29040857</u> | Not Issued | 161 | 06/29/1995 | SPRAY FENDER FOR AN AGRICULTURAL VEHICLE |
| ✓ <u>10627445</u> | Not Issued | 071 | 07/25/2003 | METHOD FOR PRODUCING BISPHENOL CATALYST AND BISPHENOLS |
| <u>10627423</u> | Not Issued | 030 | 07/25/2003 | METHOD FOR PRODUCING BISPHENOL CATALYST AND BISPHENOLS |
| ✓ <u>10627394</u> | Not Issued | 030 | 07/25/2003 | METHOD FOR PRODUCING BISPHENOL CATALYST AND BISPHENOLS |
| <u>10626990</u> | Not Issued | 030 | 07/25/2003 | METHOD FOR PRODUCING BISPHENOL CATALYST AND BISPHENOLS |
| <u>10410693</u> | Not Issued | 061 | 04/11/2003 | WEATHERABLE BLOCK COPOLYESTERCARBONATES, BLENDS CONTAININ THEM, AND METHOD |
| <u>10409067</u> | Not Issued | 061 | 04/08/2003 | WEATHERABLE MULTILAYER RESINOUS ARTICLE AND METHOD FOR THEIR PREPARTION |
| ✗ <u>09954914</u> | 6534686 | 150 | 09/18/2001 | METHOD FOR PRODUCING BISPHENOL CATALYST AND BISPHENOLS |
| ✗ <u>09954909</u> | 6620939 | 150 | 09/18/2001 | METHOD FOR PRODUCING BISPHENOL CATALYST AND BISPHENOLS |

| | | | | |
|-----------------|----------------|-----|------------|--|
| <u>09916160</u> | <u>6538065</u> | 150 | 07/26/2001 | METHOD FOR PREPARING COPOLYESTERCARBONATES AND ARTICLES THEREFROM |
| <u>09741627</u> | <u>6414200</u> | 150 | 12/19/2000 | SILYLMETHANETHIOLS AS PROMOTERS FOR BISPHENOL PRODUCTION |
| <u>09251244</u> | <u>6440364</u> | 150 | 02/16/1999 | METHOD OF DEGASSING ABSORBABLE SUTURE PRODUCTS |
| <u>08758108</u> | <u>5663406</u> | 150 | 11/25/1996 | FORMATION OF CARBONATE ESTERS AND ORTHOCARBONATES |
| <u>08673540</u> | Not Issued | 161 | 07/01/1996 | PROCESS FOR REMEDIATION OF A CONTAMINATE PARTICULATED MATERIAL |
| <u>08673484</u> | <u>5779810</u> | 150 | 07/01/1996 | METHOD TO REMOVE HALOGENATED HYDROCARBONS FROM PARTICULATE MATTER |
| <u>08611609</u> | <u>5797995</u> | 150 | 03/08/1996 | METHOD FOR THERMAL REMOVAL OF HALOGENATED ORGANIC COMPOUNDS FROM SOI |
| <u>08523177</u> | <u>5688335</u> | 150 | 09/05/1995 | CONTAMINANT REMOVAL FROM MATERIAL |
| <u>08494040</u> | Not Issued | 166 | 06/26/1995 | FORMATION OF CARBONATE ESTERS AND ORTHOCARBONATES |
| <u>08407454</u> | Not Issued | 166 | 03/20/1995 | METHOD FOR THERMAL REMOVAL OF HALOGENATED ORGANIC COMPOUNDS FROM SOI |
| <u>08300900</u> | Not Issued | 168 | 09/06/1994 | METHOD TO REMOVE HALOGENATED HYDROCARBONS FROM PARTICULATE MATTER |
| <u>08300899</u> | <u>5520745</u> | 150 | 09/06/1994 | REMEDIATION OF CONTAMINATED MATERIAL |
| <u>08254628</u> | <u>5430232</u> | 250 | 06/06/1994 | ENHANCED VOLATILIZATION OF POLYCHLORINATED BIPHENYL COMPOUNDS |
| <u>08242768</u> | Not Issued | 168 | 05/16/1994 | PROCESS FOR REMEDIATION OF A CONTAMINATE PARTICULATE MATERIAL |
| <u>08055599</u> | <u>5391300</u> | 150 | 05/03/1993 | METHOD FOR THE REMOVAL OF HALOGENATED ORGANIC COMPOUNDS FROM AN ENVIRONMENT |
| <u>08046874</u> | <u>5334672</u> | 150 | 05/27/1993 | AROMATIC POLYMER BLENDS AND METHOD |
| <u>07985160</u> | <u>5296880</u> | 250 | 12/03/1992 | BIFOCAL CONTACT LENS |
| <u>07928397</u> | Not Issued | 161 | 08/12/1992 | AROMATIC POLYMER BLENDS AND METHOD |
| <u>07736547</u> | Not Issued | 161 | 07/26/1991 | AROMATIC POLYMER BLENDS AND METHOD |
| <u>07646902</u> | <u>5187243</u> | 150 | 01/28/1991 | HIGH IMPACT, FLAME RETARDANT, TRANSPARENT BLENDS OF AROMATIC POLY- CARBONATE AND |

| | | | | |
|-----------------|----------------|-----|------------|---|
| | | | | POLY(ARYLOXYSILOXANE) |
| <u>07497155</u> | <u>5041514</u> | 150 | 03/21/1990 | POLYMERIC REACTION PRODUCTS OF BIPHENOLS AND ORGANOSILICON MATERIALS AND METHOD FOR MAKING |
| <u>07353713</u> | Not Issued | 161 | 05/18/1989 | POLYMERIC REACTION PRODUCTS OF TETRAALKYLBIPHENOL AND ORGANOSILICON MATERIALS AND METHOD FOR MAKING |
| <u>07344713</u> | <u>5026890</u> | 250 | 04/28/1989 | METHOD AND INTERMEDIATES FOR PREPARATION OF BIS(AMINOALKYL) POLYDIORGANOSILOXANE |
| <u>07196910</u> | Not Issued | 161 | 05/20/1988 | METHOD AND INTERMEDIATES FOR PREPARATION OF BIS(AMINOALKYL) POLYDIORGANOSILOXANE |
| <u>06768255</u> | <u>4631346</u> | 150 | 08/22/1985 | SILYL CARBAMATES AND THEIR USE IN THE PREPARATION OF BIS (AMINOALKYL) DISILOXANE |
| <u>06743836</u> | <u>4565885</u> | 150 | 06/12/1985 | METHOD FOR PREPARING OLEFINIC SILAZANES |
| <u>06707630</u> | Not Issued | 164 | 03/04/1985 | SILYL CARBAMATES AND THEIR USE IN THE PREPARATION OF BIS (AMINOALKYL) DISILOXANE |
| <u>06691293</u> | <u>4584393</u> | 150 | 01/14/1985 | BIS (AMINOALKYL) DISILOXANES AND METHOD AND INTERMEDIATES FOR THEIR PREPARATION |
| <u>06691292</u> | <u>4584388</u> | 150 | 01/14/1985 | METHOD AND COMPOSITION FOR PREPARING AROMATIC POLYCARBOXYLIC ACIDS AND THEIR ANHYDRIDES FROM POLYCARBOXIMIDES |
| <u>06505636</u> | <u>4578470</u> | 150 | 06/20/1983 | BIS-IMIDES CONTAINING HETEROCYCLIC AROMATIC RINGS |
| <u>06321644</u> | <u>4391996</u> | 250 | 11/16/1981 | 1,1-DICHLORO-2,2-BIS(HYDROXYPHENYL)ETHYLE |
| <u>06306859</u> | Not Issued | 161 | 09/29/1981 | FLAME RETARDANT PHOSPHORUS/NITROGEN ADDITIVES FOR THERMOPLASTICS |
| <u>06254815</u> | <u>4329292</u> | 150 | 04/16/1981 | CONTINUOUS METHOD FOR MAKING AROMATIC BIS(ETHER PHTHALIC ACID) OR AROMATIC BIS(ETHER ANHYDRIDE) |
| <u>06253446</u> | <u>4340545</u> | 150 | 04/13/1981 | METHOD FOR MAKING AROMATIC BIS (ETHER ANHYDRIDES) |
| <u>06251019</u> | <u>4318857</u> | 150 | 04/03/1981 | METHOD FOR MAKING AROMATIC BIS (ETHER ANHYDRIDES) |
| <u>06250994</u> | <u>4329496</u> | 150 | 04/03/1981 | METHOD FOR MAKING AROMATIC BIS (ETHER PHTHALIC ACID) OR AROMATIC BIS (ETHER ANHYDRIDE) |
| <u>06250804</u> | <u>4329291</u> | 150 | 04/03/1981 | METHOD FOR MAKING AROMATIC BIS (ETHER ANHYDRIDE)S |
| <u>06124914</u> | <u>4349479</u> | 150 | 02/26/1980 | METHOD OF SALVAGING AROMATIC BISIMIDE VALUES |

| | | | | |
|-----------------|----------------|-----|------------|--------------------------------------|
| <u>06097350</u> | <u>4273674</u> | 150 | 11/26/1979 | THERMAL DETECTING PAINT COMPOSITIONS |
|-----------------|----------------|-----|------------|--------------------------------------|

Search and Display More Records.

| | | |
|-------------------------------------|---------------------------------------|------------------------------------|
| Search Another: Inventor | Last Name | First Name |
| | <input type="text" value="Webb"/> | <input type="text" value="Jimmy"/> |
| | <input type="button" value="Search"/> | |

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